

AUTOMOBILES

MILLIONS WASTED IN TIRE LOADING

Goodyear Expert Declares \$57,000,000 Squandered Through Failure to Observe Precautions.

DEGREE VARIES WITH LOAD

The number of automobiles in this country has now passed the two-million mark, which indicates a tire output of about 12,000,000 for this year. Figured at \$5 each, which is a conservative average, a value of \$60,000,000 will represent the year's output.

Statistics which have just been compiled by the experimental department of the Goodyear Tire and Rubber company show that 30 per cent of this enormous sum is being squandered by ill-advised loading of tires. In other words, \$17,400,000 will be wasted this year through failure to observe proper precaution in the matter of loading tires.

Mr. P. W. Litchfield, factory manager of the Goodyear Tire and Rubber company, in his paper presented before the Society of Automobile Engineers at the summer conference, suggested a remedy for this waste by the adoption of a sliding scale of carrying capacities and inflation pressures. This is essentially the adaptation of the air pressure to the load imposed on the tires.

"Long experience has shown that these loads and air pressures are the most satisfactory combination for maximum service and effective cushioning," says Mr. Litchfield. "The quantities of comfort and easy riding must be recognized as vital points, equally as important as tire durability. Why are pneumatic tires used at all if not for easy riding qualities?"

The degree to which a tire is flattened against the ground varies with the load. For every tire load there is a definite percentage of tire deflection which bears a direct relation to the inflation pressure. Obviously, then, a scale of relative carrying capacities and inflation pressures, if properly observed, will tend to eliminate the enormous waste now caused by haphazard methods of loading and inflating.

Weigh Front and Rear.

"The load properly assigned to a tire should be the actual load on the tire with the car fully loaded. The actual load on each tire can be ascertained by weighing first the front of the fully loaded car, then the rear, dividing each figure by two to get the load per tire. It can then be inflated to the proper pressure for that particular weight, as indicated by the scale of carrying capacities and inflation pressures. A certain tolerance in pressure should be allowed for leakage, but before the pressure drops 20 per cent the tire should be pumped up again.

Realizing, of course, that every consumer has a right to his own ideas as to what constitutes good service, and that no practical inflation schedule will cover all possible conditions of service, the following schedule is offered and recommended as a guide under normal conditions.

Gross carrying capacity, pounds per tire, including passengers and complete equipment.

Infl. pres.	2 3/4"		4 1/2"		5 1/2"	
	in.	lb.	in.	lb.	in.	lb.
20	250	250	350	350	450	450
25	250	300	350	400	500	500
30	250	350	400	450	550	550
35	250	400	450	500	600	600
40	250	450	500	550	650	650
45	250	500	550	600	700	700
50	250	550	600	650	750	750
55	250	600	650	700	800	800
60	250	650	700	750	850	850
65	250	700	750	800	900	900
70	250	750	800	850	950	950
75	250	800	850	900	1000	1000
80	250	850	900	950	1050	1050
85	250	900	950	1000	1100	1100
90	250	950	1000	1050	1150	1150
95	250	1000	1050	1100	1200	1200
100	250	1050	1100	1150	1250	1250

Enger Auto Co. to Put Out Thousand-Dollar Twin-Six Car

Another big sensation of the year in the automobile industry is news that the Enger Motor Car company has placed a twelve-cylinder car on the market to sell for the revolutionary price of \$1,095.

Shipment of demonstrators already has been started and the company officials declare that they are now prepared to make deliveries to purchasers in a short time.

The Enger company is widely known as a successful manufacturer of motor cars, having developed a six-cylinder car which last season met with a most favorable reception from the public. The new twelve-cylinder car will be built in its entirety in the large Enger factory at Cincinnati, where the experiments and tests have been diligently conducted for months.

The absolute secrecy which shrouded the company's plans causes the announcement of the car to come as a complete surprise even to those closely connected with the industry.

In appearance, the car is striking, with long, low, racy lines. The wheelbase of 115 inches has given the designers ample room for a roomy, attractive body. Pains-taking care in the construction of the body is obvious to the observer.

The predominant feature of the motor is its perfect smoothness and lack of vibration at all engine speeds. This is due largely to the small bore of the pistons, as well as to the fact that the reciprocating parts are extremely light, being about one-half the weight of those used in other twelve-cylinder motors. The small piston weight and small explosions give the car an unusually wide range of high gear activity. Those who have ridden in the Enger "twin six" say that it is remarkably flexible, running from high speed to one mile per hour without a change of gear.

Summer Complaint Cured. Dr. King's New Life Pills will rid the system of fermenting foods and poisons. Keep stomach and liver healthy. 25c. All druggists.—Advertisement.

Large Shipment of Hupmobiles on Way

A large shipment of Hupmobiles to supply the demand for this car in Nebraska,

Iowa and South Dakota, is due to arrive this week.

W. L. Huffman spent last week at the Hupmobile factory in Detroit, Mich., to get cars to supply the unprecedented demand.

For the first time in years the Huffman Auto company has found itself

with more orders than cars. But the large shipment now arriving will be welcome news to many Hupmobile agents.

Give Amateur a Trial.
The St. Louis club is going to give a trial to Ray Newell, a promising young amateur pitcher, of the St. Louis Municipal league.

Apperson Cars to Be Exhibited at Fairs

"Now I know people will see the Apperson at the Des Moines fair," said Joe G.

Roberts, Omaha branch manager, "because I have just returned from Des Moines and all arrangements are complete."

The Apperson people have also made arrangements for exhibits at the Lincoln fair and are planning upon having people know what is in the car by actually look-

ing it over and seeing actual demonstrations.

Miller May Jump.
Federal league rumors have Jack Miller of the Cardinals ready to join the New York Yankees, and reports in the east say that Jack will shift to the third league shortly.

Enger Twin Six

\$1095 12 Cylinders \$1095 12 Cylinders

Here is a twelve cylinder motor car for only \$1095! It has a 2 5/8 inch bore by a 3 1/2 inch stroke. It is of the highly efficient valve-in-the-head type. The cylinders are set at an angle of sixty degrees. It has an unusually long wheelbase—115 inches. Demonstrations are going on at the factory now. Come down and drive the Enger Twin Six yourself. Wire, without further delay, for your appointment. **We Want Dealers Everywhere**

Here is undoubtedly the world's nearest approach to perfect efficiency in an automobile.

Pick out the smoothest and most quiet car that you have ever driven, and against it the Enger Twin Six is better than twice as smooth; better than twice as quiet.

Here you have a faster pick up; greater flexibility and a more perfectly balanced flow of abundant power.

Step on the throttle and instantaneously you sail from a standing start to racing speed.

All vibration and noise have been completely eliminated.

In short, here is a degree of silence, speed and power which cannot be obtained in anything but a Twelve Cylinder car.

And the price is only \$1095!

Understand, when we put a car on the market we stand behind it just as Packard or Ford would. We have the financial strength to back this up. We have just as much at stake. Our reputation is just as valuable. Refer to Dun or Bradstreet and you'll probably be surprised to find that we have the same rating as Packard and Ford.

This model is the direct result of a long period of careful preparation, designing, testing and experimenting.

Nor are we announcing a car, as many

other manufacturers have done, that is only in the blue print stage.

Production is already under way.

We are tuned up and tooled up to do business.

Material has been purchased for a large production.

Demonstrators can be delivered to deal-

ers in a few weeks. Cars in quantities will follow shortly.

But first we are allotting territory. We want substantial and financially sound dealers in every city.

We have a marketable product, which we can start deliveries on shortly and are in a position to do immediate business with responsible men.

We start allotting territory Monday, August 30th. So immediate action on your part is essential.

Nor is the sole feature of this car the twelve cylinder motor. We have not taken an old chassis and body and dropped a new motor in it.

This model is a brand new design from start to finish.

The body design is patterned after the \$3000 designs. Here you have real stream lines—no sharp edges—every corner perfectly rounded. Taste, grace and harmony is displayed throughout.

This smart model is finished in dark Brewster green.

It's a beauty!

Remember—a thoroughly high grade twelve cylinder car for only \$1095!

Come down and drive this car yourself.

Quick action is imperative if you want early deliveries. Telegraph us now.

Brief Specifications	
Motor	Twin Six (12 cylinders) cast on bloc. Angle of cylinders 60 degrees from center line. 2 5/8 bore, 3 1/2 stroke. Valve in the head motor. Construction of motor allows for removing head.
Ignition	Automatic and manual advance, Atwater Kent.
Wheelbase	115". Road clearance 10".
Electric Starting and Lighting System	Electric motor meshing in fly wheel gear for starting. Generator—direct drive.
Carburetion	Double entrance carburetor with manifold hot water jacketed.
Springs	Castilever.
Transmission	Three speeds ahead, one reverse.
Clutch	Multiple disc. Dry plate.
Rear Axle	Frosted steel housing. Spiral bevel gears. Witdrawable wheel shaft.
Cooling System	Thermo-siphon.
Control	Center.
Tires	Wholes equipped with demountable rims and 2 1/2 x 4 tires, non-skid on rear.
Weight of Car	2485 lbs., fully equipped with top, windshield, battery, lamps, starter, magnetic speedometer, tools and extra rim.
Color	Body is a dark Brewster green.
Price \$1095 f. o. b. Cincinnati	

The Enger Motor Car Company, Cincinnati, Ohio
FOSHIER-ENGER CO. 12th and Farnam --- Omaha, Neb.

